

# FPL & Miami-Dade County's plan to **REUSE** 60 million gallons of water every day

An Advanced Reclaimed Water project to help protect our water.



After months of extensive study, Florida Power & Light Company and Miami-Dade County have developed an innovative water treatment process to reuse 60 million gallons of treated wastewater every day. This is one of the most innovative and promising projects in the State of Florida to help protect our water supply.

Reusing the water would be part of a plan to reduce the amount of County wastewater going into the ocean. This will also eliminate Turkey Point's use of water from the aquifer by providing a drought-proof supply of purified water to improve the water quality of the plant's cooling canals.

The alliance between FPL and the County is the most economical way to help Miami-Dade comply with the state's mandate to reuse 117 million gallons of wastewater a day. It would save Miami-Dade taxpayers hundreds of millions of dollars compared to any other proposal for meeting the requirement.

## Benefits of FPL & Miami-Dade County working together to clean and reuse wastewater

### 60 million

gallons of Miami-Dade's daily wastewater will be reused instead of ending up in deep wells or the ocean. This will meet half of the county's water reuse goal.



### 117 million

gallons of water could potentially be treated each day as a result of this project, and the additional water could be routed to local wetlands for rehydration.

### 5 steps

of wastewater treatment will ensure the wastewater is safe prior to being reused, and this is the same 5-step process used to treat drinking water.



### Up to 99%

of key impurities will be removed during the treatment process including viruses, bacteria, nutrients, and other compounds.

### 6 years

are left for Miami-Dade County to meet the state's mandate to reuse 117 million gallons of water each day, and the collaboration with FPL could help the County meet half of the state's required amount.



### 1 alliance

represents the largest, most economical and promising effort to help Miami-Dade reach this important mandate, and FPL is committed to this collaboration.

# 5 steps of water treatment:

## Advanced Reclaimed Water Project

### Clarification:

Large particles settle out of the water.

### Microfiltration/ Ultrafiltration:

Membranes filter silt and bacteria out of the water.

### Reverse Osmosis:

High-pressure membranes filter out viruses, dissolved compounds and pharmaceuticals.

### Ion Exchange:

Resin removes ammonia from the water.

### Ultraviolet Light/ Advanced Oxidation Process:

High-intensity UV light and hydrogen peroxide destroy any remaining trace contaminants.

